# ملخص

# كيمياء عضوية ( 6 )

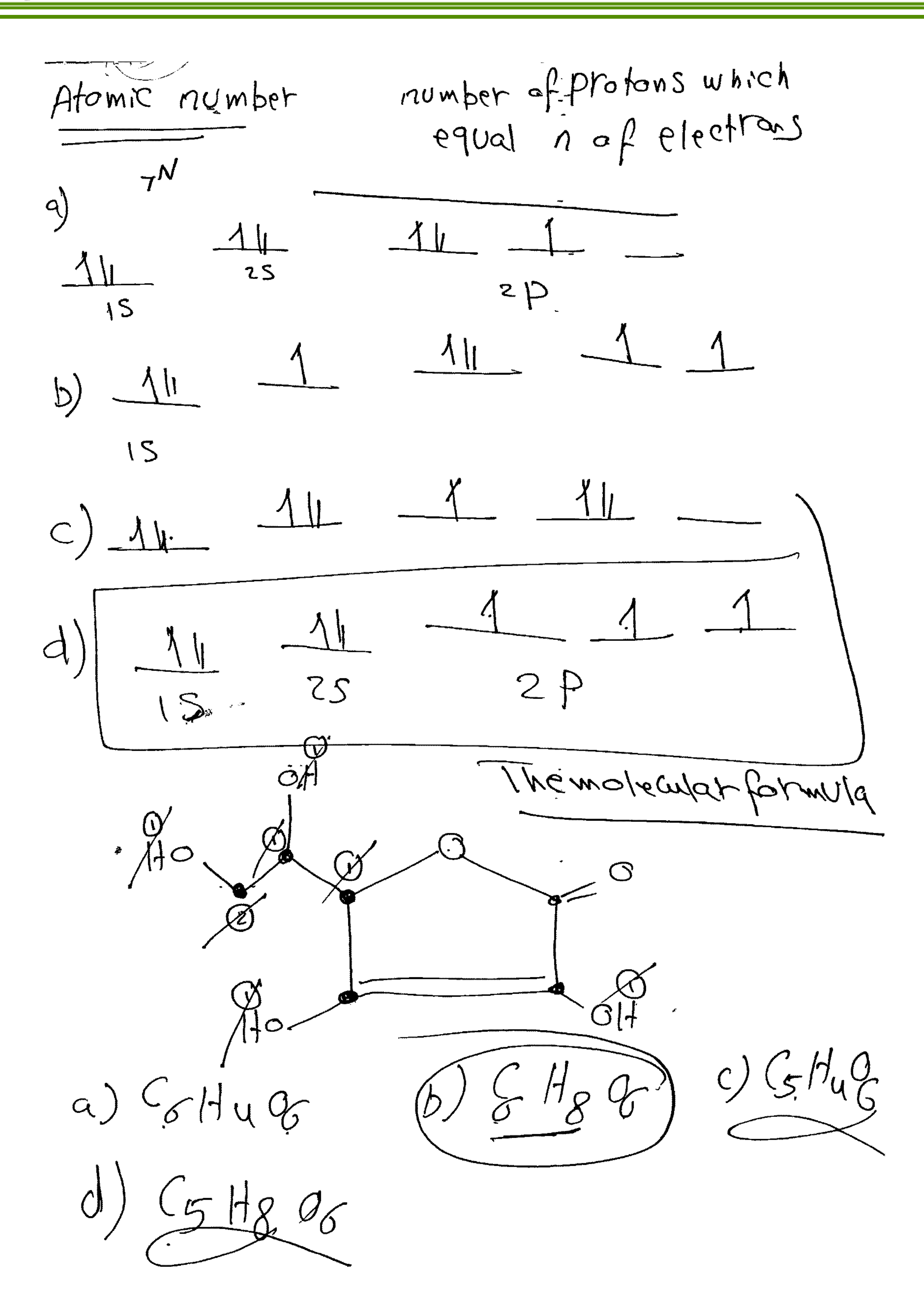
## لطلاب السنة التحضيرية بجامعة الملك خالد بأبها – المحالة

## 2015

**عمل تطوعي طلابي**

**لا تنسى زيارة المدونة http://kku-a.blogspot.com**

**و نشر المدونة بين الطلاب لتعم الفائدة**



Atomic number — number of protons which equal n of electrons

$_7N$

a) 1s ↑↓ 2s ↑↓ 2p ↑↓ ↑ __

b) 1s ↑↓ ↑ ↑↓ ↑ ↑

c) ↑↓ ↑↓ ↑ ↑↓ __

d) 1s ↑↓ 2s ↑↓ 2p ↑ ↑ ↑

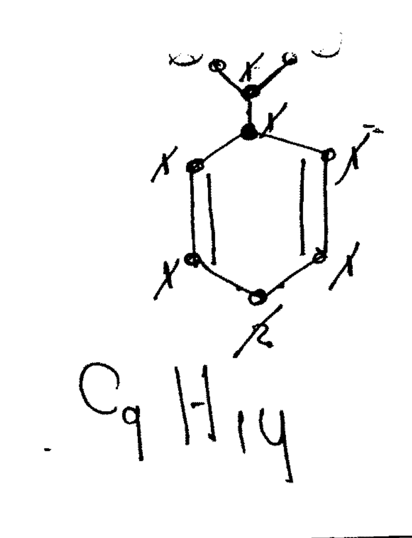
The molecular formula

a) $C_6H_4O_6$

b) $C_6H_8O_6$

c) $C_5H_4O_6$

d) $C_5H_8O_6$

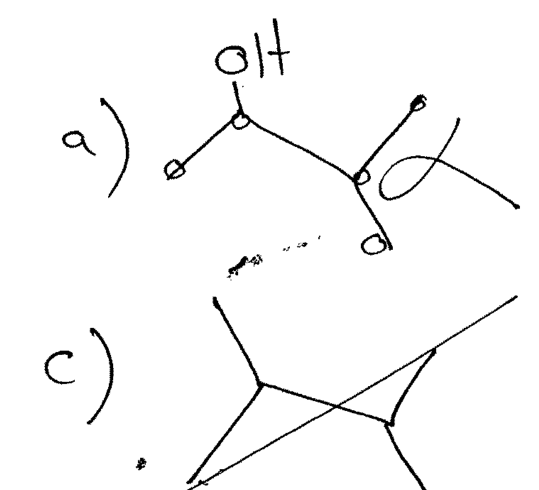


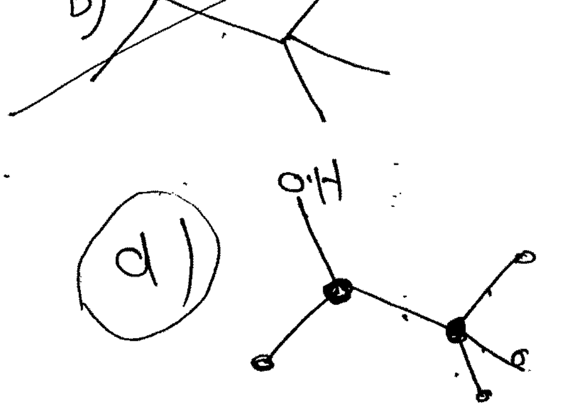
$C_9H_{14}$

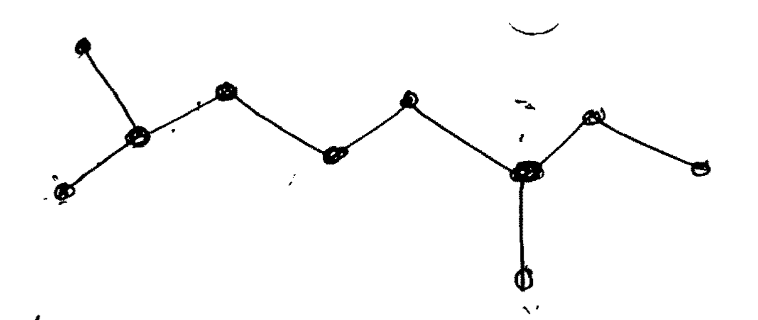
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$(CH_3)_3\ C\ CH(OH)\ CH_3$

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a) $(CH_3)_2 CH (CH_2)_3 CH CH_2CH_3$

b) $CH_3 (CH_2)_4 CH (CH_3) CH_2CH_3$

c) $(CH_3)_2 CH (CH_2)_3 CH (CH_3) CH_2CH_3$

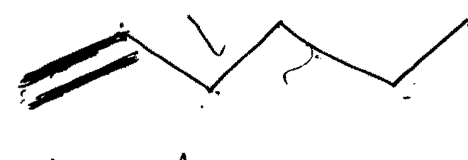
d) $(CH_3)_2 (CH_2)_3 CH (CH_3)_2 CH_2CH_3$

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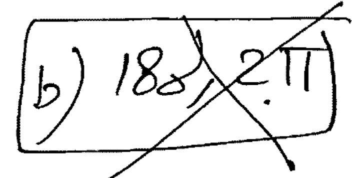
اى قوس بـ $CH_3$ اعلم انه تفرع

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How many σ and π bonds in



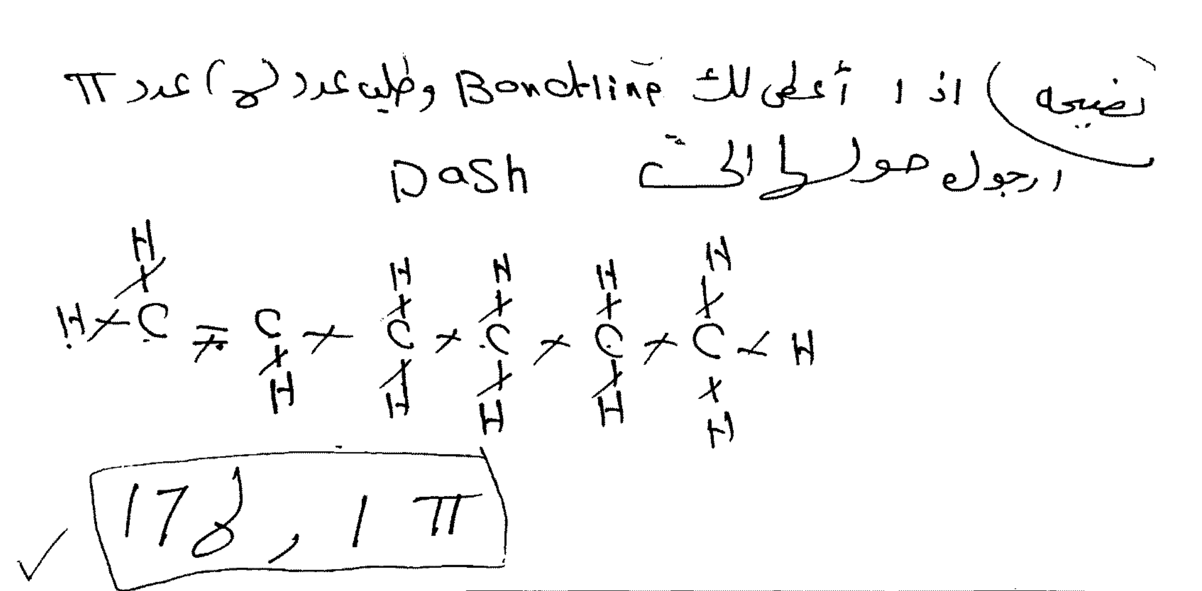
a) 15σ, 1π

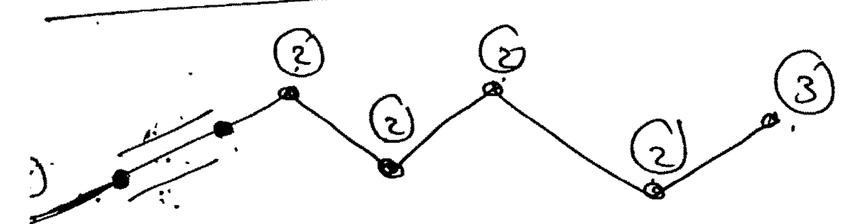


b) 18σ, 2π

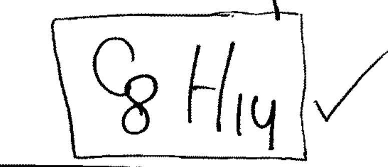
c) 56, 1π

d) 17σ 1π

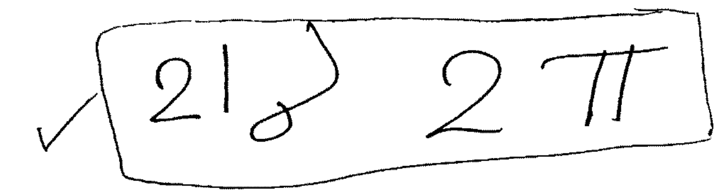


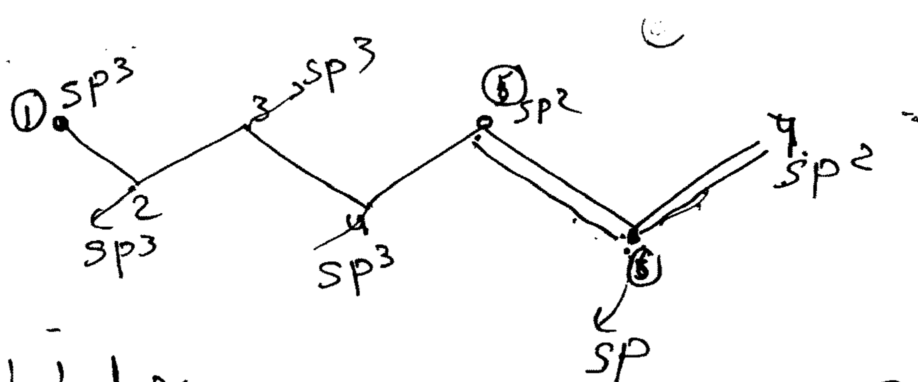



what is The molecular formula in The last compound




How many σ and π






انظر الى ذره الكربون مع جميع الجوانب واحسب عدد الروابط π

أ- صفر ⟵ $sp^3$

ب- 1 ⟵ $sp^2$

جـ- 2 ⟵ $sp$

اذا وجدت ذرة كربون بين ارتباطين باي ترتيبها SP

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$CO_2$

O=C=O

C ⟶ SP

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overlapped between $C_1 \to C_2$ $sp^3$ $sp^3$

التداخل $C_4$ $C_5$ $sp^3$ $sp^2$

C = C — C — $CH_3$

The overlapped between $C_1$ and H is

$sp^3$ $1s^1$

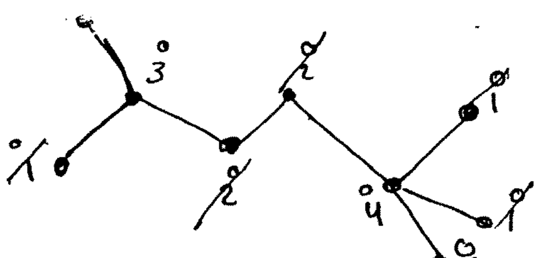
$sp^3$ C — F $2p^5$

F = 9

$1s^2$ $2s^2$ $2p^5$

$1s^2$ $2s^2$ $2p^5$

(٧)



The number of primary, secondary, tertiary and quaternary carbon in the following compound

a) 6, 0, 1 and 2

b) ~~5, 4, 1 and 0~~

c) **5, 2, 1 and 1**

d) 2, 3, 1 and 0

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3 The 3-Ethyl 4,4-dimethyl hexane is incorrect name. The correct name

لأ ← ٣ اثيل ٤،٤ داي ميثيل هكسان ١ ٢ ٣ غير صحيح

طيب ← الصحيح ؟

6, 5, 4, 3, 2, 1

4-Ethyl-3,3-dimethylhexane

$C_{20}H_X$ $X = 42$

$C_nH_{2n+2}$

$_6C$ 1s² 2s² 2p²

Carbonatom

exition // //

كربون (1) المثارة

1s 2s 2p

electronic configuratia hyberdized carbon atom in methane

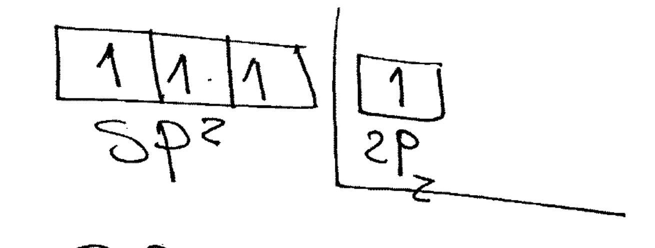
تهجين

1s² sp³

note

(sp³) هو نوع التهجين (الخ) ....., Ethan, methane يعني Alkanes






SP

